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PATENTS  
Docket No. PARAL-7

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Eugeni Namsaraev  
Application No.: 10/676,933 Confirmation No.: 7872  
Filed : September 30, 2003  
For : POLYNUCLEOTIDE SYNTHESIS AND LABELING  
BY KINETIC SAMPLING LIGATION  
Group Art Unit : 1637

Mail Stop Amendment  
Hon. Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL LETTER FOR  
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Transmitted herewith is a Supplemental  
Information Disclosure Statement in the above-identified  
application. This Statement is submitted:

within three months of the application filing  
date;

more than three months from the application  
filing date but before the mailing date of  
the first Office Action on the merits.

In accordance with 37 C.F.R. § 1.97, submission  
of this Statement requires no fee. However, if for any  
reason a fee is due, the Director is hereby authorized to  
charge payment of any fees required in connection with this

Information Disclosure Statement to Deposit Account  
No. 06-1075. A duplicate copy of this letter is  
transmitted herewith.

Respectfully submitted,



\_\_\_\_\_  
David A. Roise  
Registration No. 47,904  
Attorney for Applicant

FISH & NEAVE IP GROUP  
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Name of Person Signing

Lorraine Cole

Signature of Person Signing

3/18/05

Date of Signature



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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98,  
applicant hereby makes the following documents of record in  
the above identified application:\*

U.S. Patents

US2004/0101835	05-27-2004	Willis
6,013,445	01-11-2000	Albrecht
5,888,737	03-30-1999	DuBridge
5,366,877	11-22-1994	Keith
5,093,245	03-03-1992	Keith

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\* Applicant reserves the right to challenge the status  
of any of the cited documents as prior art.

Other Documents

BORODINA et al, "Ligation-based synthesis of oligonucleotides with block structure," *Anal. Biochem.*, 318: 309-313 (2003).

DOLINNAYA et al, "Oligonucleotide circularization by template-directed chemical ligation," *Nucleic Acids Research*, 21: 5403-5407 (1993).

HAYDEN et al, "Gene synthesis by serial cloning of oligonucleotides," *DNA*, 7: 571-577 (1988).

LEBEDENKO et al, "Method of artificial DNA splicing by direct ligation (SDL)," *Nucleic Acids Research*, 19: 6757-6761 (1991).

MANDECKI et al, "Fok I method of gene synthesis," *Gene*, 68: 101-107 (1988).

NARANG et al, "'In vitro' method of assembling a synthetic gene," *Biochem. Biophys. Res. Comm.*, 134: 407-411 (1986).

RINK et al, "A large fragment approach to DNA synthesis: total synthesis of a gene for the protease inhibitor eglin c from the leech Hirudo medicinalis and its expression in *E. coli*," *Nucleic Acids Research*, 12: 6369-6387 (1984).

RUBIN et al, "Convergent DNA synthesis: a non-enzymatic dimerization approach to circular oligonucleotides," *Nucleic Acids Research*, 23: 3547-3553 (1995).

SUNG et al, "Simultaneous synthesis of human-, mouse- and chimeric epidermal growth factor genes via 'hybrid gene synthesis' approach," *Nucleic Acids Research*, 14: 6159-6168 (1986).

WANG et al, "Oligonucleotide circularization by 'template-mediated' ligation with T4 RNA ligase: synthesis of circular hammerhead ribosymes," *Nucleic Acids Research*, 26: 2502-2504 (1998).

WOLTERS et al, "Construction of a 42 base pair double stranded DNA microcircle," *Nucleic Acids Research*, 17: 5163-5172 (1989).

All of the above documents are also listed on the accompanying Form PTO/SB/08a. Pursuant to 37 CFR 1.98, applicant has not submitted copies of the listed U.S. patents. Copies of the aforementioned other documents are enclosed herewith.

It is respectfully requested that these documents be (1) fully considered by the Patent and Trademark Office during the examination of this application; and (2) printed on any patent that may issue on this application.

Applicants request that a copy of Form PTO/SB/08a, as considered and initialed by the Examiner, be returned with the next communication.

An early and favorable action is respectfully requested.

Respectfully submitted,



\_\_\_\_\_  
David A. Roise  
Registration No. 47,904  
Attorney for Applicant

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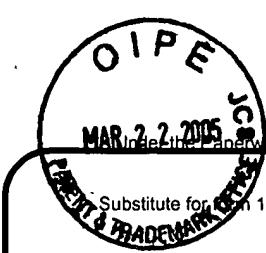
Date of Deposit

Lorraine Coke  
Name of Person Signing

Jeanne Cohn  
Signature of Person Signing

3/18/05  
Date of Signature

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Substitute for Form 1449A/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet

1

of 2

**Complete if Known**

Application Number	10/676,933
Filing Date	30 September 2003
First Named Inventor	Namsaraev
Art Unit	1637
Examiner Name	N/A

Sheet

1

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Examiner  
Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

2

of

2

**Complete if Known**

Application Number	10/676,933
Filing Date	30 September 2003
First Named Inventor	Namsaraev
Art Unit	1637
Examiner Name	N/A

Attorney Docket Number

PARAL-7

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		BORODINA et al, "Ligation-based synthesis of oligonucleotides with block structure," Anal. Biochem., 318: 309-313 (2003).	
		DOLINNAYA et al, "Oligonucleotide circularization by template-directed chemical ligation," Nucleic Acids Research, 21: 5403-5407 (1993).	
		HAYDEN et al, "Gene synthesis by serial cloning of oligonucleotides," DNA, 7: 571-577 (1988).	
		LEBEDENKO et al, "Method of artificial DNA splicing by direct ligation (SDL)," Nucleic Acids Research, 19: 6757-6761 (1991).	
		MANDECKI et al, "Fok I method of gene synthesis," Gene, 68: 101-107 (1988).	
		NARANG et al, "'In vitro' method of assembling a synthetic gene," Biochem. Biophys. Res. Comm., 134: 407-411 (1986).	
		RINK et al, "A large fragment approach to DNA synthesis: total synthesis of a gene for the protease inhibitor eglin c from the leech Hirudo medicinalis and its expression in E. coli," Nucleic Acids Research, 12: 6369-6387 (1984).	
		RUBIN et al, "Convergent DNA synthesis: a non-enzymatic dimerization approach to circular oligonucleotides," Nucleic Acids Research, 23: 3547-3553 (1995).	
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		WOLTERS et al, "Construction of a 42 base pair double stranded DNA microcircle," Nucleic Acids Research, 17: 5163-5172 (1989).	

Examiner Signature	Date Considered
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